Atty. Dkt. No.: 086142-0561

WHAT IS CLAIMED IS:

1. A child seat for a vehicle, comprising:

a child seat; and

a shaft attached to the child seat;

wherein a first end of the shaft is disposed at a higher elevation than a second end of the shaft;

wherein the shaft is rotatable about an axis of the shaft; and wherein the shaft includes at least one slit configured to accept a seat belt.

- 2. The child seat according to claim 1, wherein the at least one slit includes a lap belt slit configured to accept a lap belt and a shoulder belt slit configured to accept a shoulder belt.
- 3. The child seat according to claim 2, wherein the shoulder belt slit is disposed above the lap belt slit.
- 4. The child seat according to claim 1, wherein the shaft extends in a vertical direction.
- 5. The child seat according to claim 1, wherein the shaft is configured so that a seat belt inserted into the at least one slit winds around the shaft when the shaft is rotated.
- 6. The child seat according to claim 2, wherein the shoulder belt slit is disposed adjacent to the lap belt slit.
- 7. The child seat according to claim 2, wherein the shoulder belt slit and the lap belt slit have a common belt inlet.
- 8. A child seat for a vehicle, comprising:

a child seat; and

a drive train attached to the child seat;

wherein the drive train includes a rotatable shaft and a torque limiting device; wherein the shaft includes at least one slit configured to accept a seat belt; and wherein the torque limiting device is configured to prevent torque exerted on

the shaft from exceeding a predetermined value.

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9. The child seat according to claim 8, wherein the shaft is configured so that a seat belt inserted into the at least one slit winds around the shaft when the shaft is rotated.

- 10. The child seat according to claim 8, wherein the torque limiting device comprises a torque clutch.
- 11. The child seat according to claim 8, wherein the torque limiting device comprises a torque sensor.
- 12. A child seat according to claim 8, wherein the drive train further comprises a knob configured to enable a user to rotate the shaft.
- 13. A child seat according to claim 12, wherein the torque limiting device prevents a torque exerted on the knob from being transmitted to the shaft when the torque exerted on the knob exceeds a predetermined value.
- 14. An attachment mechanism for securing a child seat to a vehicle using a seat belt, comprising:

a rotatable shaft configured to be installed on a child seat;

wherein the shaft includes at least one slit configured to accept the seat belt; and

wherein the shaft is configured so that a first end of the shaft is disposed at a higher elevation than a second end of the shaft when the shaft is installed on the child seat.

- 15. The attachment mechanism for securing a child seat to a vehicle using a seat belt according to claim 14, wherein the at least one slit includes a lap belt slit configured to accept a lap belt and a shoulder belt slit configured to accept a shoulder belt.
- 16. The attachment mechanism for securing a child seat to a vehicle using a seat belt according to claim 15, wherein the shoulder belt slit is disposed adjacent to the lap belt slit.
- 17. The attachment mechanism for securing a child seat to a vehicle using a seat belt according to claim 15, wherein the shoulder belt slit and the lap belt slit have a common belt inlet.

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18. The attachment mechanism for securing a child seat to a vehicle using a seat belt according to claim 14, further comprising a torque limiting device, wherein the torque limiting device is configured to prevent torque exerted on the shaft from exceeding a predetermined value.

- 19. The attachment mechanism for securing a child seat to a vehicle using a seat belt according to claim 18, wherein the torque limiting device comprises a torque clutch.
- 20. The attachment mechanism for securing a child seat to a vehicle using a seat belt according to claim 18, wherein the torque limiting device comprises a torque sensor.
- 21. The attachment mechanism for securing a child seat to a vehicle using a seat belt according to claim 18, further comprising a knob configured to enable a user to rotate the shaft.
- 22. The attachment mechanism for securing a child seat to a vehicle using a seat belt according to claim 21, wherein the torque limiting device is configured to prevent a torque exerted on the knob from being transmitted to the shaft when the torque exerted on the knob exceeds a predetermined value.